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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FOURTH SEMESTER B.TECH DEGREE EXAMINATION(R&S), MAY 2019

Course Code: IT204

Course Name: OBJECT ORIENTED TECHNIQUES (IT)					
Max. Marks: 100 Duration: 3 Hours					
		PART A Answer any two questions, each carries 15 marks	Marks		
1	a)	Discuss the merits and demerits of object oriented technology	4		
	b)	Write program to implement copy constructor in C++	5		
	c)	What are different types of access specifiers supported by C++? Explain with a	6		
		suitable example			
2	a)	Explain unary operator overloading with an example	6		
	b)	Write a program that consists of two classes time12 and time24. The first one	9		
		maintains time on a 12 hour basis, whether the other one maintains it on a 24 hour			
		basis. Provide conversion functions to carry out the conversion from object of one			
		type to another (Use copy constructor).			
3	a)	Design a program to find the sum of 2 matrices by passing arrays to function	8		
	b)	Explain static member functions with an example	7		
		PART B			
Answer any two questions, each carries 15 marks					
4	a)	What are the different forms of inheritance supported by C++? Explain them with	10		
		an example			
	b)	What is containership? How is it differ from inheritance	5		
5	a)	Differentiate pointer to an array and array of pointers	8		
	b)	Describe run time memory management in C++? How does it differ from C's	7		
		memory management?			
6	a)	Write a C++ program to store the capitals of 5 states by using array of pointer to	7		
		object.			
	b)	How do constructors and destructors behave in inheritance	8		

PART C Answer any two questions, each carries 20 marks

7	a)	Write short note on C++ exception handling mechanism	6
	b)	Differentiate between function overloading and function template	8
	c)	Define the term generic programming? Write a generic function min() that returns	6
		the lesser of its two arguments?	
8	a)	Describe the various file mode parameters	6
	b)	There are 100 records present in a file. Each record contains item_code,	8
		item_name and quantity. Write a program to read these records, arrange them in	
		the ascending order and write them in the same file overwriting the earlier records.	
	c)	What are the advantages of using this pointer in a program	6
9	a)	Write a function template to implement binary search in an array	10
	b)	Discuss different sequential input output file operations with examples	10